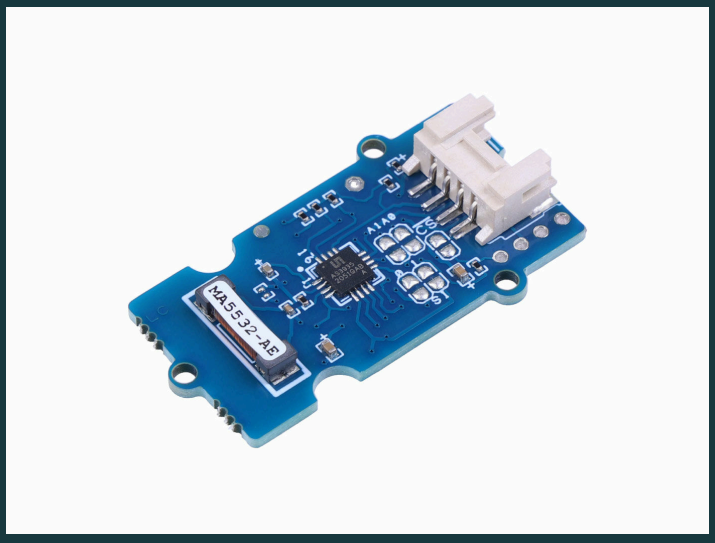
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INDUSTRIAL PRODUCT DATASHEET

Grove - Lightning Sensor (AS3935) - up to 40km range, programmable parameters, I2C, SPI, support 3.3V and 5.0V power supply

The Grove - Lightning Sensor (AS3935) provides long-range lightning detection and programmable alerting for storm forecasting and equipment protection.

SKU	UPDATED	PRICE
101021072	2026-07-14 03:31:03	$26.90(Excl. VAT)



Overview

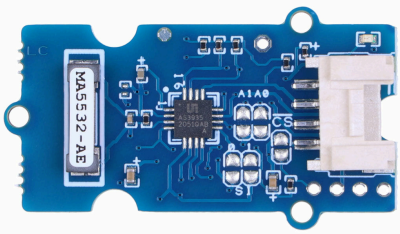


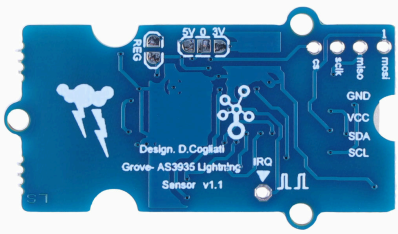
The Grove - Lightning Sensor (AS3935) detects both cloud-to-ground and intra-cloud lightning up to 40 km away, featuring programmable detection parameters and support for I2C/SPI communication and 3.3V/5V power supply. It is ideal for lightning storm alert forecasting, weather stations, protecting portables and GPS devices, and automated protection systems.

Key Features

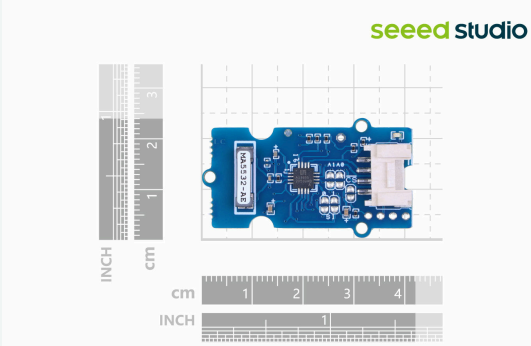
- **Lightning Sensor:** Detect both cloud-to-ground and intra-cloud types of lightning, based on the electric fields
- **Wide Range:** Sense in a range up to 30 – 40 km the front of a storm with lightning
- **Programmable Detection Parameters:** Achieve threshold setting level for optimal control
- **Support I2C or SPI communication**
- **Support both 3.3V and 5.0 V power supply**

Product Gallery









Specification

Parameter	Detail
Size	40 x 20 mm - height 7 mm
Power	5 Volt or 3.3 Volt(through jumper selection)
Communication	I2C or SPI
Current in	max 70 uA down to 2 uA with Vreg off and
Power down mode.	
On state	Yes through green led ON
Resonance	
frequency	500 kHz

Applications

- **Alert forecasting for dangerous lightning storms:** Alert forecasting for dangerous lightning storms approaching
- **Weather stations**
- **Portables and GPS power down:** Portables, Global positioning systems (GPS) to go in power down to prevent injuries to electronic boards.
- **Automated protection systems:** Automated protection systems to prevent damage to electrical equipment.

Part List

Grove lightning detection sensor	x1
Grove cable	x1

Compliance & Logistics

HSCODE	9031900090
USHSCODE	9031902100
UPC	
EUHSCODE	9013101000
COO	CHINA

Resource Links

- https://www.seeedstudio.com/Grove-Lightning-Sensor-AS3935-p-5603.html
- AS3935_Datasheet_EN_v2
- Demo-Tuning_example
- SCHEMATIC-GROVE-AS3935-rev1

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